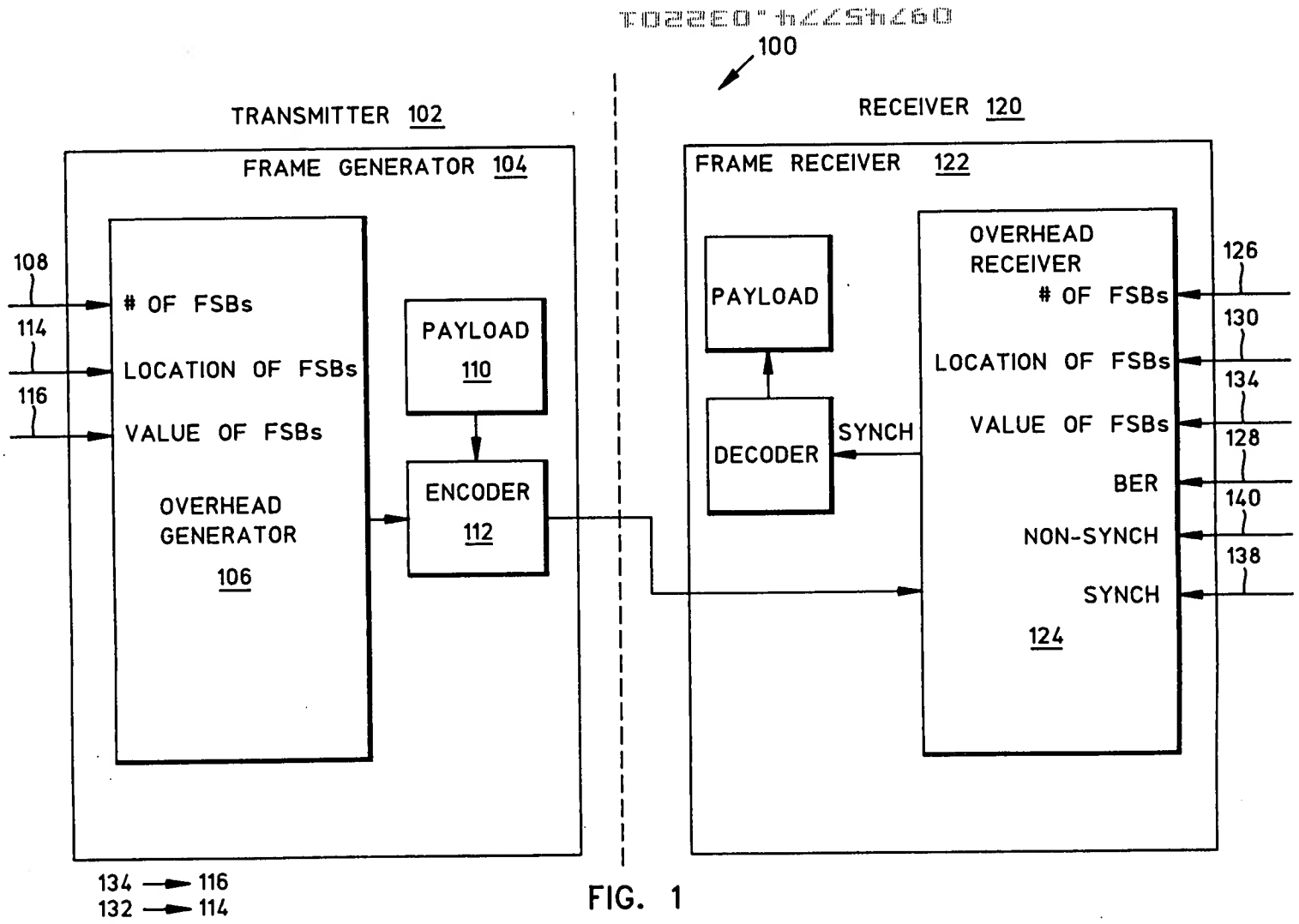
100
TRANSMITTER 102
FRAME GENERATOR 104
108
OF FSBs
114
LOCATION OF FSBs
116
VALUE OF FSBs
OVERHEAD GENERATOR 106
PAYLOAD 110
ENCODER 112
134 116
132 114
RECEIVER 120
FRAME RECEIVER 122
PAYLOAD
DECODER
SYNCH
OVERHEAD RECEIVER
OF FSBs
LOCATION OF FSBs
VALUE OF FSBs
BER
NON-SYNCH
SYNCH
124
126
130
134
128
140
138

FIG. 1

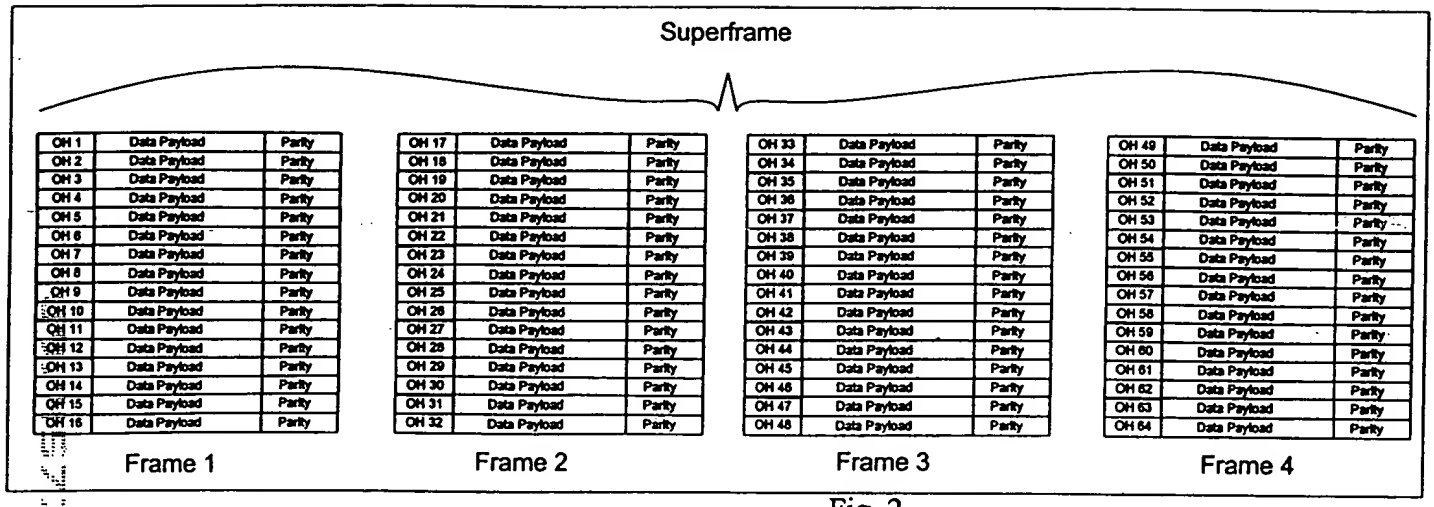
Superframe
OH 1 Data Payload Parity
OH 2 Data Payload Parity
OH 3 Data Payload Parity
OH 4 Data Payload Parity
OH 5 Data Payload Parity
OH 6 Data Payload Parity
OH 7 Data Payload Parity
OH 8 Data Payload Parity
OH 9 Data Payload Parity
OH 10 Data Payload Parity
OH 11 Data Payload Parity
OH 12 Data Payload Parity
OH 13 Data Payload Parity
OH 14 Data Payload Parity
OH 15 Data Payload Parity
OH 16 Data Payload Parity
Frame 1
OH 17 Data Payload Parity
OH 18 Data Payload Parity
OH 19 Data Payload Parity
OH 20 Data Payload Parity
OH 21 Data Payload Parity
OH 22 Data Payload Parity
OH 23 Data Payload Parity
OH 24 Data Payload Parity
OH 25 Data Payload Parity
OH 26 Data Payload Parity
OH 27 Data Payload Parity
OH 28 Data Payload Parity
OH 29 Data Payload Parity
OH 30 Data Payload Parity
OH 31 Data Payload Parity
OH 32 Data Payload Parity
Frame 2
OH 33 Data Payload Parity
OH 34 Data Payload Parity
OH 35 Data Payload Parity
OH 36 Data Payload Parity
OH 37 Data Payload Parity
OH 38 Data Payload Parity
OH 39 Data Payload Parity
OH 40 Data Payload Parity
OH 41 Data Payload Parity
OH 42 Data Payload Parity
OH 43 Data Payload Parity
OH 44 Data Payload Parity
OH 45 Data Payload Parity
OH 46 Data Payload Parity
OH 47 Data Payload Parity
OH 48 Data Payload Parity
Frame 3
OH 49 Data Payload Parity
OH 50 Data Payload Parity
OH 51 Data Payload Parity
OH 52 Data Payload Parity
OH 53 Data Payload Parity
OH 54 Data Payload Parity
OH 55 Data Payload Parity
OH 56 Data Payload Parity
OH 57 Data Payload Parity
OH 58 Data Payload Parity
OH 59 Data Payload Parity
OH 60 Data Payload Parity
OH 61 Data Payload Parity
OH 62 Data Payload Parity
OH 63 Data Payload Parity
OH 64 Data Payload Parity
Frame 4

Fig. 2

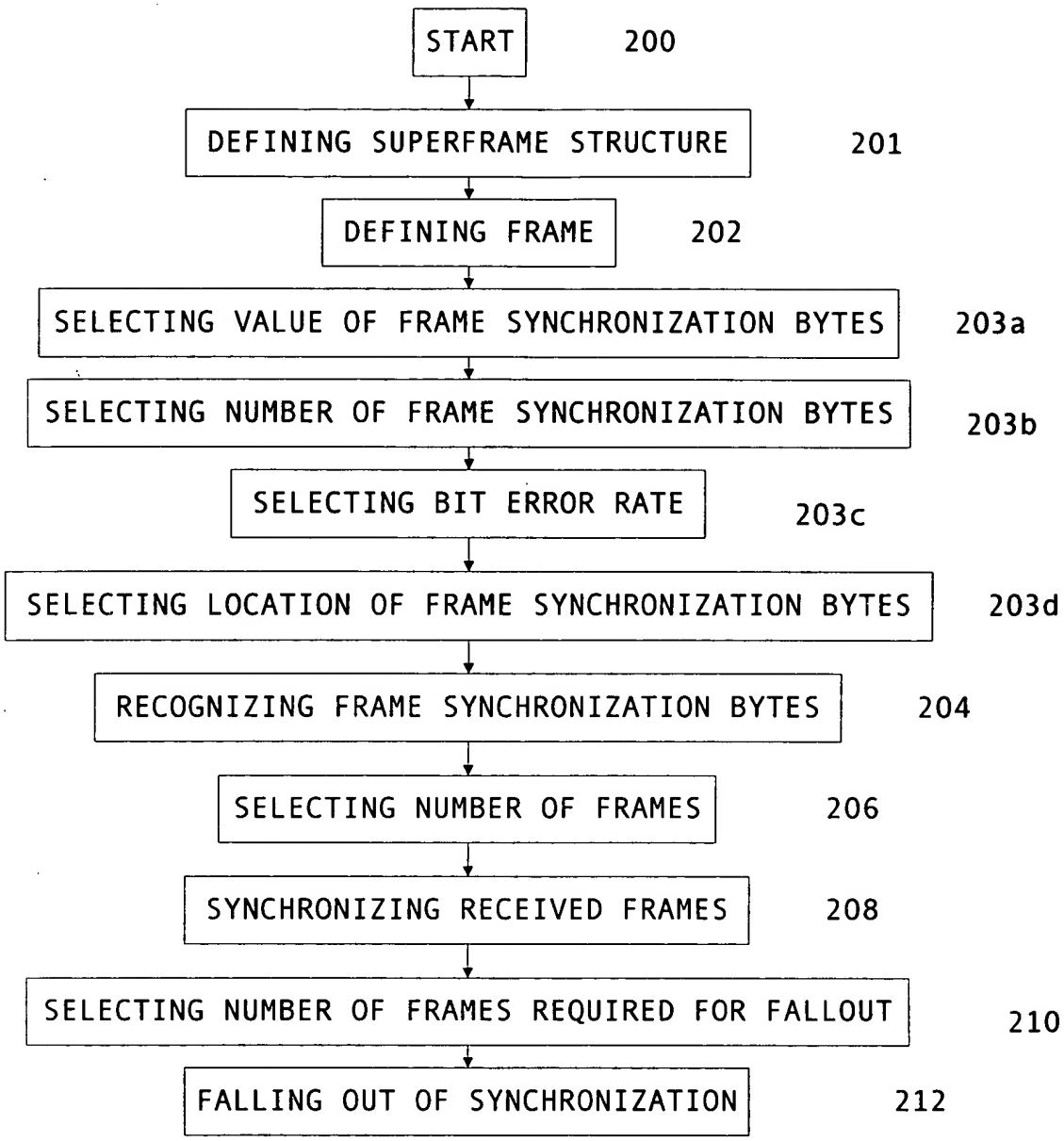
START
200
DEFINING SUPERFRAME STRUCTURE
201
DEFINING FRAME
202
SELECTING VALUE OF FRAME SYNCHRONIZATION BYTES
203a
SELECTING NUMBER OF FRAME SYNCHRONIZATION BYTES
203b
SELECTING BIT ERROR RATE
203c
SELECTING LOCATION OF FRAME SYNCHRONIZATION BYTES
203d
RECOGNIZING FRAME SYNCHRONIZATION BYTES
204
SELECTING NUMBER OF FRAMES
206
SYNCHRONIZING RECEIVED FRAMES
208
SELECTING NUMBER OF FRAMES REQUIRED FOR FALLOUT
210
FALLING OUT OF SYNCHRONIZATION
212

FIG. 3

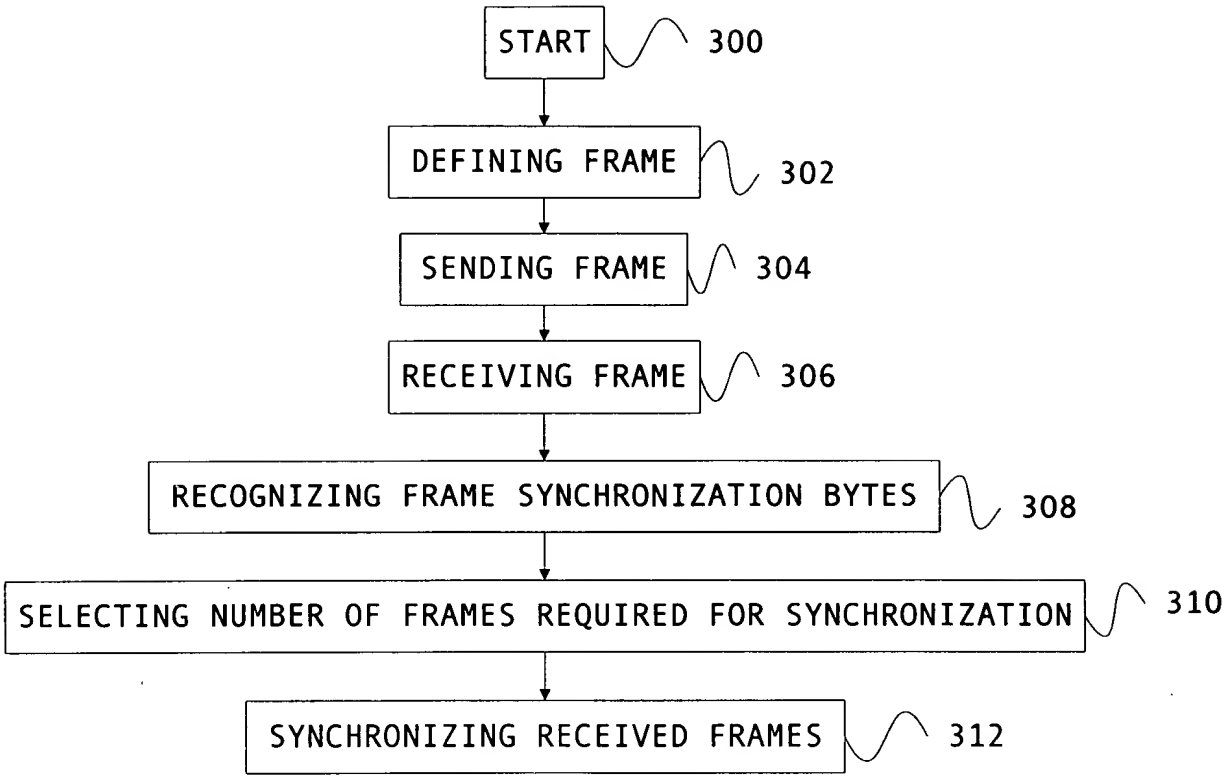
START
300
DEFINING FRAME
302
SENDING FRAME
304
RECEIVING FRAME
306
RECOGNIZING FRAME SYNCHRONIZATION BYTES
308
SELECTING NUMBER OF FRAMES REQUIRED FOR SYNCHRONIZATION
310
SYNCHRONIZING RECEIVED FRAMES
312

FIG. 4

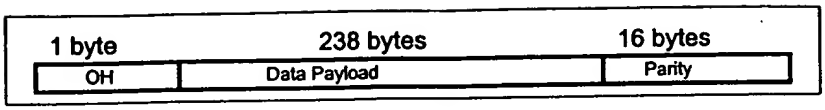
1 byte
238 bytes
16 bytes
OH
Data Payload
Parity

Fig. 5

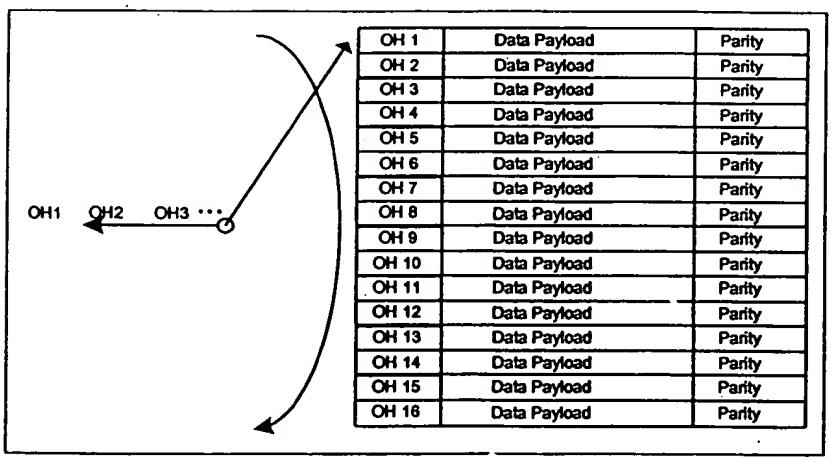
OH1
OH2
OH3 • • •
OH 1
OH 2
OH 3
OH 4
OH 5
OH 6
OH 7
OH 8
OH 9
OH 10
OH 11
OH 12
OH 13
OH 14
OH 15
OH 16
Data Payload
Parity

Fig. 6

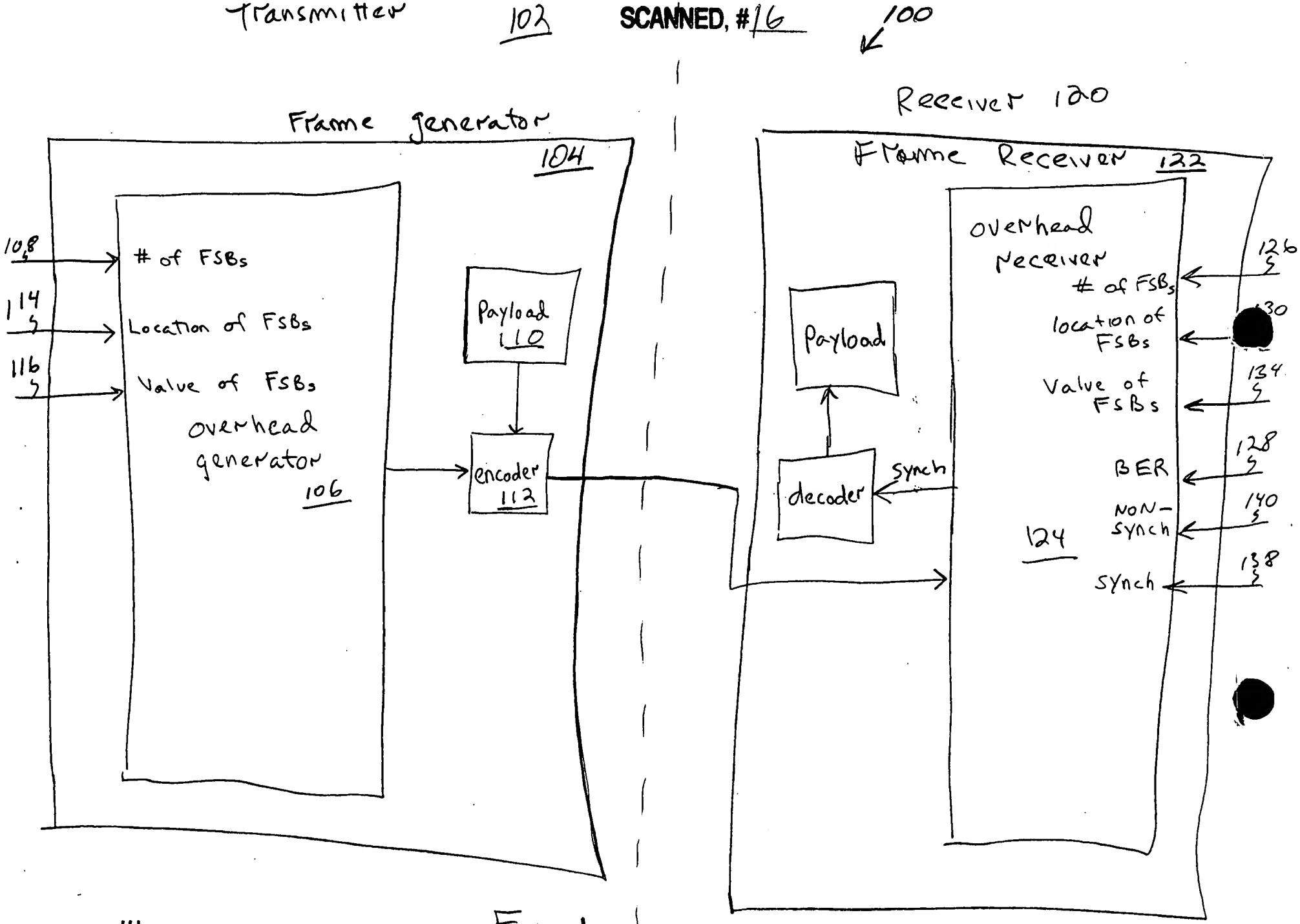

Fig. 1

134 → 116
132 → 114